## IN THE CLAIMS

(previously presented) A MRI RF coil array, said array comprising:

 a first coil having a null B<sub>1</sub> point and a quasi-one-peak sensitivity profile with
 only one peak; and

a second coil oriented with respect to said first coil to reduce coupling.

- 2. (original) A MRI RF coil array according to claim 1, wherein said second coil is within said first coil.
- 3. (original) A MRI coil array according to claim 1, wherein said second coil overlaps said first coil.
- 4. (original) A MRI coil array according to claim 1, wherein said second coil is cascaded with said first coil.
- 5. (original) A MRI coil array according to claim 1, wherein said second coil is solenoidal.
- 6. (previously presented) A MRI coil array, said array comprising:
  a first solenoidal coil having a first section and a second section, said first
  section having more turns than said second section and said second section having a counterrotational orientation with respect to said first section, said first coil having a quasi-one-peak
  sensitivity profile with only one peak; and

a second solenoidal coil, said second coil being oriented with respect to said first coil to reduce coupling.

- 7. (original) A MRI coil array according to claim 6, wherein said second coil is oriented between said first and second sections.
- 8. (original) A MRI coil array according to claim 6, wherein said second coil is oriented about said second section.
- 9. (original) A MRI coil array according to claim 6, wherein said second coil is cascaded with said first coil.
- 10. (previously presented) A MRI coil array, said array comprising:

  a first solenoidal coil having a first section and a second section, said first
  section having more turns than said second section and said second section having a counterrotational orientation with respect to said first section; and

a second solenoidal coil, said second coil being oriented with respect to said first coil to reduce coupling wherein said second coil is oriented about said second section.

11. (previously presented) A MRI coil array, said array comprising:

a first solenoidal coil having a first section and a second section, said first section having more turns than said second section and said second section having a counterrotational orientation with respect to said first section; and

a second solenoidal coil, said second coil being oriented with respect to said first coil to reduce coupling, wherein said second coil is cascaded with said first coil.

- 12. (previously presented) A MRI coil array according to claim 6, further comprising an orthogonal coil forming a quadrature pair with each of said solenoidal coils.
- 13. (previously presented) A MRI RF coil array according to claim 1, wherein said second coil is placed near the null B<sub>1</sub> point.
- 14. (previously presented) A MRI RF coil array according to claim 1, wherein said first coil comprises a plurality of winding sections with the  $B_1$  field produced by one winding section stronger than the  $B_1$  field produced by another winding section.
- 15. (previously presented) A MRI RF coil array according to claim 1, wherein said first coil comprises a plurality of winding sections, a number of the winding sections based on sensitivity parameters.
- 16. (previously presented) A MRI RF coil array according to claim 1, wherein said first coil comprises a plurality of winding sections and at least one of (i) a separation between winding sections and (ii) a diameter of the winding sections is based on sensitivity parameters.
- 17. (previously presented) A MRI RF coil array according to claim 1, wherein said second coil is positioned relative to said first coil based on B<sub>1</sub> field strength.
- 18. (previously presented) A method for providing a MRI coil array, said method comprising:

configuring a first coil having a null  $B_1$  point and a quasi-one-peak sensitivity profile with only one peak; and

configuring a second coil oriented with respect to said first coil to reduce coupling.

19. (previously presented) A method according to claim 18, wherein said second coil overlaps said first coil.

20. (previously presented) A method according to claim 18, wherein said second coil is cascaded with said first coil.